



CDF Operations

Steve Hahn

May 1, 2006

All Experimenters' Meeting

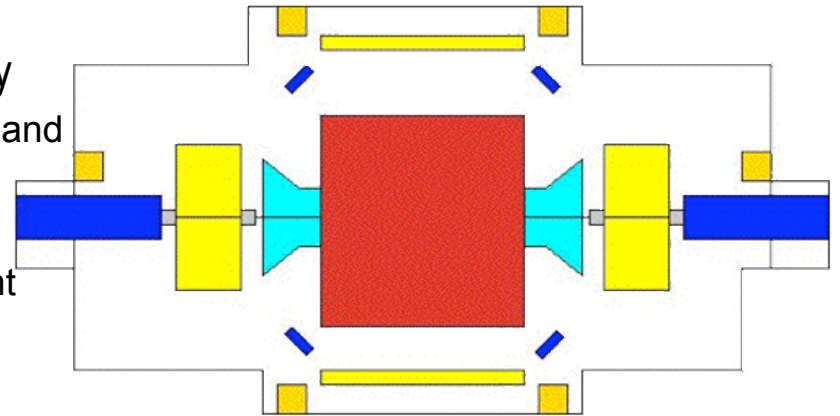


CDF Operations

✎ April: Week-by-week

➤ Week 6: April 3 to April 9

- ➔ Plugs pulled Monday; bore access Tuesday
 - ➔ COT noise reduction work (both in bore and in low voltage supplies) begins
 - ➔ EM Timing work on rear of plug crates
 - ➔ Access to endwalls for PMT replacement
- ➔ Begin work on hardware EVB/Level 3
 - ➔ Over course of month, now up to 16 subfarms (mostly new nodes, but some old nodes)
- ➔ EM Timing crates on 1st floor running with Run 2B upgrade TDCs
- ➔ COT TDC repairs: one backplane replaced, some TDCs recovered by reseating
- ➔ Tour of collision hall by DOE Secretary Bodman





CDF Operations

☛ April: Week-by-week (continued)

➤ Week 7: April 10 to April 16

- ➔ 8 plug CAEN 527s (HV) out for repair and maintenance at PREP
- ➔ Hadron TDC crates on 1st floor have TDCs removed for Run 2B upgrade
- ➔ COT noise reduction work
 - ➔ Voltage drops in low voltage supplies fixed
 - ➔ Noise reduction in bore completed, but no discernable improvement
- ➔ 3 WHA PMTs replaced
- ➔ SVX humidity sensors repaired/added
- ➔ New cable installations started: XFT fibers, CMX HV, new BLM cabling, diamond sensor cabling
- ➔ Damaged Hillman roller from NW muon steel returned to Hillman for refurbishing
- ➔ Begin work on online CDF webserver: new hardware, better security

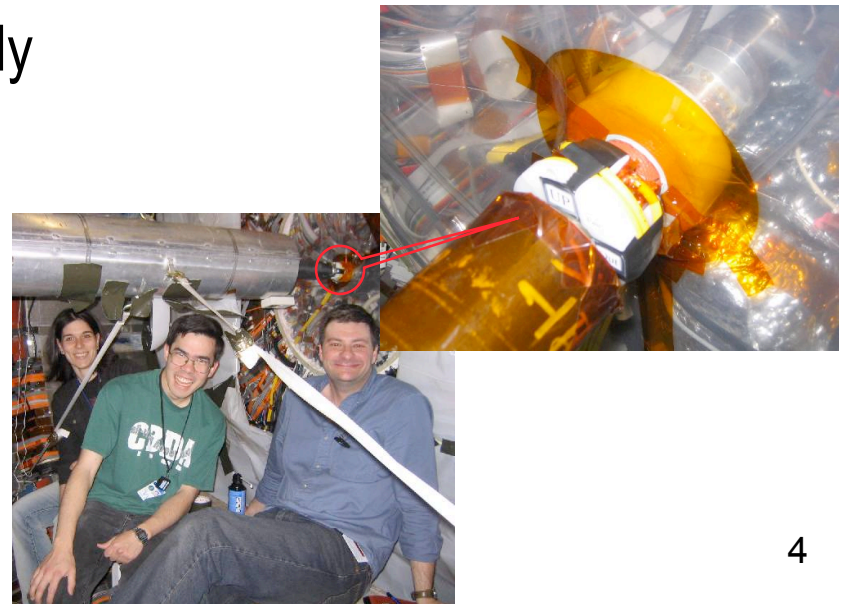
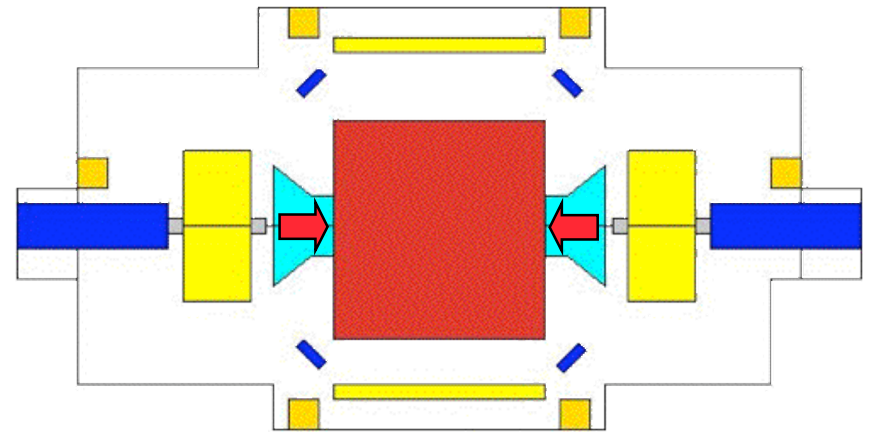


CDF Operations

➡ April: Week-by-week (continued)

➤ Week 8: April 17 to April 23

- ➡ Diamond sensors intalled in bores
- ➡ 3 TOF PMTs replaced for study of gain loss
- ➡ Muon scintillator repairs on muon walls and arches



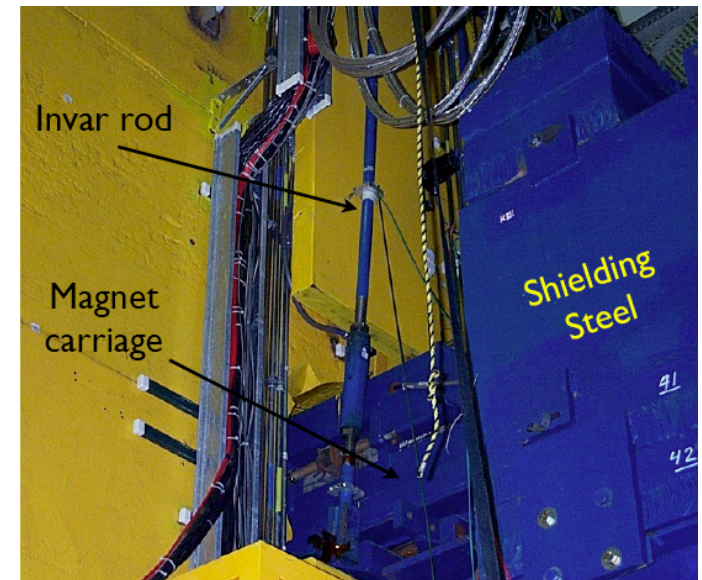
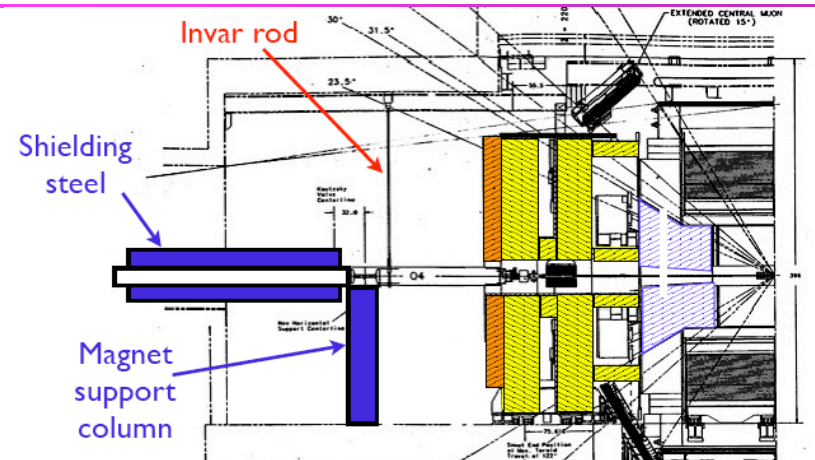


CDF Operations

April: Week-by-week (continued)

➤ Week 9: April 24 to May 1

- ➔ Plugs closed last Monday
- ➔ CLC PMT replacement finished on east side; resume on west side May 8
- ➔ Redistribution of data load on VRBs (data concentrators) to maximize bandwidth into Level 3
- ➔ SVX/TOF heaters (to alleviate thermal stresses on COT) now on diesel/UPS
- ➔ LCW heat exchanger cleaned for first time in 10 years
- ➔ Invar rod bent by NW muon steel “fin” while testing motion with new Hillman rollers
 - ➔ May have moved Q4/Q3 5 mm
 - ➔ New procedure in place to prevent possibility of recurrence
 - ➔ Invar bars removed Friday
- ➔ Power outage no problem this morning; electrical panel work on 1st floor delayed turning on all DAQ until afternoon



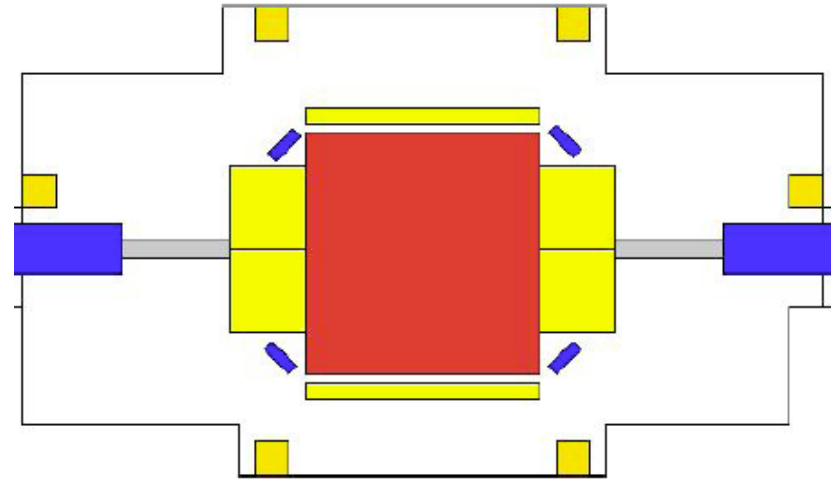


CDF Operations

☛ May-June: To do

➤ Tie up loose ends

- ➔ Close up detector this week for survey/magnet work — both for detector as-founds and to survey and realign low beta quads
- ➔ Complete XFT fiber installation
- ➔ Limited work on:
 - ➔ Muon systems (flammable gas May 22)
 - ➔ Central calorimetry
 - ➔ Silicon
 - ➔ COT TDCs
- ➔ Get Level 2 working with cosmic ray runs (using L2 auto-accept for cosmics now)
- ➔ SW muon steel Hillman roller replacement
- ➔ New COT gas recirculation system





Important Dates

Date	
2/27	Shutdown begins
2/27	Open Collision Hall, begin detector work
2/27 - 6/1	No Owl shifts (Cryo: 3/6 - 5/22): HV off at night!
3/1 - 4/6	No Hardware Event Builder
3/7	Open all steel, full detector access
3/15 - 3/29	Hilman roller replacement (NW IMU steel)
3/13	Chambers off flammable gas
3/18	8 hour power outage to B0 and trailers
4/3 - 4/26	Solenoid bore access
4/3	1/2 hour site wide power outage
5/1	1/2 hour site wide power outage
5/22	Flammable gas to COT (test recirculation system): HV off till flushed!
5/22	Restrict access to collision hall
5/12 - 5/25	Cosmic rays, Calibration and debugging
5/25	Tevatron Cold



CDF Run IIB Detector

